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**AVERAGE AND PROBABILITY.**


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157. Proposed by J. E. SANDERS, Hackney, Ohio.

A box contains  $n$  tickets numbered from 1 to  $n$ . How many draws, on the average, will it take to draw all the numbers, each ticket being replaced before drawing again? What is the numerical result for  $n=2$  and  $n=6$ ?

**NOTE.**—Problems and solutions in the departments of Geometry, Calculus, Mechanics, and Average and Probability should be sent to B. F. Finkel; and those in the departments of Algebra, Diophantine Analysis, Miscellaneous, and Group Theory should be sent to Dr. Saul Epstein. Our contributors should carefully observe this notice if proper credit for contributions is to be given.

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**NOTES.**


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The University of Missouri has come into possession of the very excellent Loan Exhibit of Mathematical Models which were exhibited at the World's Fair at St. Louis, by Schilling of Halle, Germany. F.

Dr. G. B. Halsted has been made Foreign Associate and Honorary Professor of Mathematics in the University of Tempio, Italy; and also a Fellow of the Royal Astronomical Society. F.

At the last session of the Missouri State Teachers' Association, the mathematics section of that organization resolved to organize into a society to be known as the Missouri Society of Teachers of Mathematics, the aim of the society being the improving of methods and subject-matter of mathematical instruction in the schools of the State, the distributing of literature pertaining to mathematical instruction, and the promoting of social relations between teachers in the secondary schools, graded schools, and colleges of the State. Dr. Hedrick was chosen chairman of the committee on organization, and Dr. Ames chairman of the Society. F.

Professor P. Barbarin, President of the Société des Sciences Physiques et Naturelles de Bordeaux has acquired the right to translate into French Dr. Halsted's *Rational Geometry* of which he has a long review in the current number of *l'Enseignement Mathématique*; and Yoshio Mikami will translate into Japanese and publish in Japan Dr. Halsted's Vice-Presidential Address to the Association for the Advancement of Science, the subject of which is, The Message of Non-Euclidean Geometry. F.